

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Com. (2011 & Onward) (Sem.-2)

BUSINESS STATISTICS

Subject Code : BCOP-204

Paper ID : [B1120]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.**

SECTION-A

1. Write briefly :

- a) Regression
- b) Lorenz curve
- c) Mode
- d) Harmonic mean
- e) Histogram
- f) Standard deviation
- g) Inclusive series
- h) Dispersion
- i) Trend line
- j) Limitation of statistics

SECTION-B

2. The scores of two batsmen A and B in ten innings during certain match are given below. Find which batsman is more consistent.

A : 32 28 47 63 71 39 10 60 96 14

B : 19 31 48 53 67 90 10 62 40 80

3. Find out coefficient of correlation between X and Y by method of rank differences :

X : 15 17 14 13 11 12 16 18 10 9

Y : 18 12 4 6 7 9 3 10 2 5

4. Fit a straight line by the method of least square taking 1980 as year of origin.

Year : 1980 1981 1982 1983 1984 1985 1986

Production (In '000 Units) 125 128 133 135 140 141 143

Also estimate the value of years 1987 and 1989

5. Obtain two regression equations from the following data :

X : 43 44 46 40 44 42 45 42 38 40 52 57

Y : 29 31 19 18 19 27 27 29 41 30 26 10

6. The mean, Standard deviation and range of symmetrical distribution of weights of a group of 20 boys are 40 kgs, 5 kgs, and 6 kgs respectively. Find the mean and standard deviation of the group if the lightest and the heaviest boys are excluded.
7. Distinguish between primary and secondary data. What are the various methods of collecting primary data?